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Captain Ross's Clopage to Baffin's Bap.

A Voyage of Discovery, made under the Orders of the Admiralty, in His Majesty's Ships Isabella and Alexander, for the Purpose of exploring Baffin's Bay, and inquiring into the Probability of a North-West Passage. By John Ross, K. S. Captain in the Royal Navy. Murray, London, 1819.—From the Sixty-second Number of the Edinburgh Review.

(With an Engraved Chart of the Ships' Track-Plate XXVII.)

The antient connexion of the Basin and the Pole, is well known to that part of the learned world which has devoted itself to the study of our sign-posts, and the head armour of Don Quixote;—and we suppose it is to this venerable association that we are indebted for the happy phrase of the Polar Basin, of which it has been our lot to hear so much for the last twelve months.

For our own parts, we have no objection to a Polar Basin—provided only that it can be found. But we cannot be brought to consider it is as an article of prime necessity—and do not yet see why we should be out of humour either with Nature or our Navigators, although it should turn out that there was no such thing.—It is curious indeed to see how fashions change—and how little more reasonable we are for all our learning. In the days of Captain Cook, all the world was for a Polar Continent—a Terra Australis;—and yet we do not remember, that any body abused that great navigator for failing to discover it, or reporting that it did not exist.—Now, however, the rage is for a Polar Basin—and we think, there are evident symptoms of very ungrateful dissatisfaction with Captain Ross and his associates, because they have exposed themselves to great toils and perils, with the same negative success.—But in truth it is absurd to hold, that there can be any want of success in an actual survey of regions previously unexplored—or that it can make any difference to the cause of geographical science, with what substances such regions may be bounded.—It would have been a discovery if Captain Ross had found a North-West Passage.—But if it was a discovery in the former to ascertain, that there was no such land, it must be equally so in the latter to have ascertained that there is no such passage.—The one found only ice, where his employers hoped he might find land,—and the other found only ide, where his employers hoped he might find land,—and the other found only ide, where his employers hoped he might find land,—and the other found only ide, where his employers hoped he might find land,—and the other found only ide, where his employers hoped he might find land,—and the other found only ide, where his employers hoped he might find land,—and the other found only ide, where his employers hoped he might find land, and the other found only ide, where his employers hoped he might was formerly disputed.

Captain Ross appears to have done his duty with great diligence, courage and ability; and to have told his story very clearly and honestly. But we cannot say that he has made a very interesting or entertaining book of it—or that his voyages are likely to go through as many editions as those of Captain Cook; on the contrary, we must fairly say, that we have found this work very heavy reading, and that it appears to us to be encumbered with details which might very well have been spared. It is our duty, however, to lay before our readers as clear and succinct an account of it as we can.

On the 18th of April 1818, the Isabella and Alexander, the former commanded by Captain Ross, and the latter by Lieutenant Parry, dropped down the river, and until the 30th of the same month, were occupied in reaching Shetiand. The activity of the men of science here burst forth with all the zeal to be expected from new naturalists, burning to try the temper of their hammers upon the Northern rocks, and to stain their maiden nippers in the blood of the first buttersy. The bones of a whale were brought triumphantly on board—as a part of the skeleton of a mammoth.

On the third of May the signal was made for sailing; and here the voyage may be said to have commenced. The first nautical observation of importance, occured on the 8th of this month, and it serves to nullify the place, if not the existence of Oloff Kramer's bank. This remark is shortly followed by a similar one, on the 'Sunken land of Buss;' in which, also, we infer, that Captain Ross is an unbeliever. The first ice was seen on the 26th of May, nearly in the latitude of Cape Farewell. Pennant attempts to describe from others, what he had never seen himself, the singular splendour of colouring, and the infinitude of strange and picturesque forms, which these masses assume. Captain Ross, who, as we understood, was long employed in surveying the White Sea, must have often seen them:

But he seems to us to have failed nearly as much as the other; and, indeed,

we are persuaded, that the ideas of visible objects, to which there is no thing analogous in ordinary experience, can never be communicated by mere description. Nor has Captain Ross's draftsman made them very palpable to the sense.

Ice was now met with every day, and the weather was found variable, while the ships held their course in a north-westerly direction, towards the entrance of Baffin's Bay, very absurdly called Davis's Strait. Here, on the first of June, a certain memorial of the date and ships' place was committed to the waves in a bottle: a practice resorted to on various other occasions throughout the voyage, for the purpose of ascertaining, in the event of their being afterwards found, the direction and the velocity of the current which sets through the north-west passage, and out of—the Polar Basin.

The temperature at this time was about the freezing point; that of the surface of the water and the air differing by about two degrees. The observations of this nature are very profusely scattered through the Journal; but having been very sensibly brought into one general view in a Table, we shall pay no further attention to them in this sketch of the voyage. On the 4th of June, the first positive decision is made respecting the non-existence of a current; although the bottle, pursuant to orders, is still very properly sent afloat, to sail down the stream of time. The first remarks which bave met us on the deviation of the magnetic needle, in consequence of the ship's attraction, are here also made. This fact, as our nautical and philosophical readers know, was originally pointed; out by Captain Flinders, and it appears to have occupied a considerable share of Captain Ross's attention; but as it is dreated in some detail in a separate memoir, it may also, be passed over for the present. It is more material to observe, that we are here again assured, that there was no current; 'which appeared surprising,' as the wind had blown for three successive days directly down the strait. The island of Disco was seen on the 9th of June; but no material observations appear to have been made between this period and the 14th, when the Expedition reached Waygat Island,—the usual nautical remarks occupying this portion of the Journal. An important report from the Inspector of the Danish settlement is here quoted; and it seems not a little at variance with the popular belief which preceded, and seems in a great measure to have given birth to, the Expedition. We are there informed, that the winter had been unusually severe; the sea being frozen near his station early in December, when it was generally frozen only about the middle of February. Love Bay, and Waygat's Strait, were still frozen: he had been resident in Greenland seven years, and had remarked that the severity of the cold increased.' How are we to reconcile this state

It appears, that the Esquimaux can here see the opposite land across the strait in a clear day; an observation afterwards confirmed by the experience of Captain Ross's officers. As the distance cannot be much less than 200 miles, that land must be very high; although much must also be attributed to the effects of harizontal refraction. The height from which the nativen see this land cannot exceed 1000 feet, as the bills are rarely accessible to a higher point, by reason of the ice and snow. A current was here observed running south, at the rate of a quarter of a mile an hour: But there is no reason to think that it comes from the Polar Basic. In many cases, these currents appear, from the Journal itself, to be merely the tide-currents, and alter their directions in a few hours, as that changes. In other cases, they are the result of the winds, which, acting on the loose ice, and impelling it forward, the water necessarily follows to fill up the wake; thus producing the superficial and deceptive appearance of a real current. We are persuaded, (and the results to be deduced from this Journal justify us in that opinion), that the currents, respecting which so much has been said, and which have given rise to so many fanciful speculations, are all of the same nature, and that no permanent or steady current exists in Baffin's Bay.

The sea, on the 17th of June, appeared to occupy the whole visible horizon; and the vessels were made fast, by means of their ice-anchors, to an iceberg, being detained in company with 45 thips employed on the whale

fishery. The first important geographical observation respecting the land is here made; and a correction of 50 in longitude, and of 30 miles in latitude, was made in the Admiralty charts. This was to be expected, in consequence of the inadequate means and the inadequate hands from which former positions had been deduced; and, among other important fruits of this expedition, to Geography, it will be seen, by consulting the appended chart, that a material change has been made in the position of the land wherever that had formerly been determined, either by dead reckoning, or by observations on the longitude.

After the usual difficulties in working through the ice, the Expedition reached Four Island Point, where a worthy disciple of Dr. Spurzheim was found digging for skulls. Here the ships were put into a perilous situation by the motion of the ice; and the Alexander took the ground, but was relieved by the exertions of the crew, and those of some whalers that chanced to be in company. A detail is next given of an outrage committed on the Danish factory, by some sailors from a fishing vessel. We are happy to inform our readers, that the Admiralty very properly interfered after the return of this expedition, and that adequate renuncration has since been made to the injured. To sweeten the remembrance of this injury, a ball was given to the natives, a Shetland Orpheus forming part of the Isabella's establishment, and the Esquimaux interpreter Sackheuse conducting the ceremonial.

'Sackheuse's mirth and joy exceeded all bounds; and, with a good-humoured officiousness, justified by the important distinction which his superior knowledge now gave him, he performed the office of master of the ceremonies. An Esquimaux master of ceremonies to a ball on the deck of one of His Majesty's ships in the fey seas of Greenland, was an office somewhat new; but Nash himself-could not have performed his functions in a manner more appropriate. It did not belong even to Nash to combine in his own person, like Jack, the discordant qualifications of seaman, interpreter, draughtsman, and master of ceremonies to a ball, with those of an active fisher of seals, and a hunter of white bears.'

This poor man, after the voyage was terminated, was sent to Edinburgh with the intention, as Captain Ross informs us in his Introduction, of being again appointed interpreter on the next expedition; and here he unfortunately died. He appears to have combined an unusual degree of intelligence and ingenuity, with much ardour for the acquisition of knowledge; a feature, if we judge from the reports of the Moravians, very provident among the Esquimaux of Labrador. He had narrowly escaped with his life, shortly after the ball, by the bursting of his overloaded gun.

The ice, which had so long formed a solid mass, and hitherto impeded the attempts of the expedition to work its way towards the North, began to break up on the 2d of July; and the vessels accordingly moved forward slowly, labouring through narrow and intricate channels, among mountains and loose pieces of field ice. To the westward, the like continued solid; and it soon appeared, that the only chance of effecting a further passage North, consisted in keeping near the shore.

This fact has been generally known to former navigators, as it is to the whalers within the limits of their experience in Baffin's Bay. The cause, however, has not been investigated. On narrowly examining Captain Ross's Journal, it will be found to be connected with the relative depth of water in the several parts of the Bay. Along the shore, the soundings are every where deep, ranging from 90 to 450 lathoms on the east side. But whenever, from the openness of the ice, it was possible, and for making way to the north necessary, to stand out into the Bay, the water was gradually found to shoal; averaging, wherever the observations were made, from 80 to 40 fathoms. It will certainly be singular if this extraordinary formation of the bottom should be found to prevail generally in this region. But if it should, it would at once enable us to account for the peculiar direction in which the ice breaks up, and its permanence in the middle of the Bay; where it is also maintained by the grounding of icebergs in a direction transverse to the Bay, on certain shoals which are noticed in a subsequent part of the Journal. On the 13th, the Isabella seems to have been once more placed in a perilous situation, by being jammed in between two ice-flocs, and lifted several feet out of the water.

No occurrence more interesting than the usual difficult progress through the ice, appears to have taken place till the 24th, when the Expedition reached a point, 'beyond which, as far as Cape Dudley Digges, land had not been seen by former navigators;' and here Captain Rois's geographical diacoveries may properly be said to commence. The first important observation he made was, that the whales were as númerous and as tame as they were in the days of the Baffins and the Davises. We trust our whalers will profit by the discovery. The wrotched economy provalent in the victualling of their ships is such, that they are often known to return nearly destitute of provisions; how can they centure beyond the old beaten track, for fear of the consequences of an accidental detention. His voyage has proved, that even two season of no pedular mildness, and after a winter unusually severe, the whole Bay may be circumnavigated within that time in which a whales may safely return; and that the unexplored parts abound in those fish which have been gradually, and for a long time, becoming searce in the name frequented parts of this sea. Another remark may be made on the tamoness of these whales. They appear never to have been disturbed, showing no fear of the ships or of the boats; a proof that they do not range tar, shough harpooned whales have been supposed to pass through the north-west passage from Spitusbergen into Baffin's Bay.

Here probably originated the thoughts of a passage towards the north and north cast round Greenland; although no direct intimution of this is given in the Journal. Probably Captain Ross may have suppressed his opinion on this head; as, by his instructions, he is directed to explore this

part of the coast, after he had examined the cantern shore of America; rather a singular mode of proceeding, as he was to return for that purpose through the very route he had passed, when even the whole season was barely sufficient to carry him to Cumberland Strait: But these are points in navigation beyond the limits of our acquaintance on this subject, and we must leave the adepts in this science to settle it among them. Our judgment respecting his opinion, is founded on the description of high mountains of land and ice to the east of Melville Bay, forming an impassable harrier.

On the 7th of August the vessels experienced a severe gale of wind and were in extreme danger. We shall give the description in Captain, Ross's own words.

'A floe on one side of the Isabella appeared to be fixed, while another, with a circular motion, was passing rapidly along. The pressure continuing to increase, it became a trial of strength between the ship and the ice; every support threatened to give way; the beams in the hold began to bend; and the iron tanks settled together. At this critical moment, when it seemed impossible for the ship 40 outsian the accumulating pressure much longer, she rose several feet; while the ice, which was more than six feet thick, broke against her sides, curling back on itself. The great stress now fell upon her bow, and, after being again lifted up, she was carried with great violence towards the Alexander, which ship had hitherto been, in a great measure, defended by the Isabella. Every effort to avoid their getting foul of each other failed, the ice-anchors and cables broke bue after another, and the sterns of the two ships came so violently into contact, as to crush to pieces a bont that could not be removed in time. The collision was tremendous, the anchors and chain-plates being broken, and nothing less expected than the loss of the maste: but, at this eventful instant, by the interposition of Providence, the force of the ice ascemed exhausted; the two fields suddenly receded, and we passed the Alexander with comparatively little damage. The last things that hooked each other were the two bower anchors, which, being torn from the bows, remainded suspended in a line between the two ships, until that of the Alexander gave way."

By this, as well as by the circumstance formerly mentioned, it appears that the Isabella had been better adapted to the ice than was originally supposed; and that to her unusual strengthening she was indebted for the escape she had made.

On the cessation of this gale, land was seen; and the first discovery was made of that colony of Esquimaux, respecting which the public has already heard nearly all that Captain Ross has to say; and to whom he has given, with somewhat of national affection, the name of Arctic Highlanders. By the intervention of the Esquimaux Interpreter, a communication was soon established, which was maintained at intervals for six days; when the opening of the ice, and the positive nature of his instructions on the main object of the expedition, compelled him to take leave of Prince Regent's Bay. Captain Ross informs us these Esquimaux conceived the ships to be living and flying creatures; a much more natural mistake where whales are familiar objects, than in many other situations where we understand it to have occurred. During the conversation which was held with the interpreter Sackheuse, (Captain Ross states)

'I had been employed with a good telescope, in observing their motions; and beheld the first man approach with every mark of fear and distrust, looking frequently behind to the other two, and beekoning them to come on as if for support. They occasionally retreated, then advanced again with cautious steps in the attitude of listening, generally keeping one hand down by their knees, in readiness to pull out a knife which they had in their boots; in the other hand they held their whips with the lash coiled up; their sledges remained at a little distance, the fourth man being apparently stationed to keep them in readiness for escape. Sometimes they drew back the covering they had on their beads, as if wishing to catch the most distant sounds; at which time I could discern their features, displaying extreme terror and amazement, while every limb appeared to tremble as they moved.' They were requested to cross a chasm which separated them from the interpreter, by a plank; but 'appeared still much alarmed, and requested that Sackheuse only should come over; he accordingly passed to the opposite side, on which they earnestly besought him not to touch them, as, if he did, they should certainly die. After he had used many arguments to persuade them, that he was fissh and blood, the netice who had shown most courage, ventured to touch his hand; then pulling himself by the nose, set up a shout, in which he was joined by Sackheuse, and the other three. The presents were then distributed, consisting of two or three articles of clothing, and a few strings of beads. After which, Sackheuse exchanged his knife for one of theirs.

Captain Ross and Lieutenant Parry then went on the ice; and, by the time they reached it, the whole were assembled; those who had originally been left at a distance with their sledges, having driven up to join their comrades. The party now, therefore, consisted of eight natives, with all their sledges, and about 50 dogs, two sailors. Sackheuse, Lieutenant Parry, and myself; forming a groupe of no small singularity, not a little increased, also, by the peculiarity of the situation on a field of ice far from the land. The noise and clamour may be easily convinced, the whole talking and shouting together, and the dogs howling, while the natives were flogging them with their long whips to preserve order. Our arrival produced considerable alarm, causing them to retreat a few steps towards their sledges; on this, Sackheuse called to us to pull our noses, as he had discovered this to be the mode of friendly santation with them. This ceremony was accordingly performed by each of us, the natives during their retreat making use of the same gesture, the nature of which we had not before understood. Presents were then made, and on accing their faces in the glasses, their astonishment appeared extreme, and they looked round in silence, for a moment, at each other, and at us. Immediately afterwards they set up a general shout, succeeded by a lond laugh, expressive of extreme delight, as well as surprise, in which we joined, partly from inability to avoid it, and willing also to show that we were pleased with our new acquaintances.

Confidence shortly after became established, and uncovering of heads was substitued for pulling of soses; the natives appearing to comprehend the nature of this ceremony, more quickly than the seamen did the other,

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and probably not considering it a much more reasonable, although a more inconvenient testimony of respect. They were then invited to the ship, to which one of them thought proper to address a speech, 'pausing between every question, and pulling his nose with the utmost solemnity.' All the wonder to be expected was here excited; but the quantity of 'the wood and irou appeared to be the chief objects of surprise.

Their knowledge of wood seemed to be limited to some heath of a dwarf-ish growth, with stems no thicker than the finger, and accordingly they knew not what to think of the timber they saw on board. Not being aware of its weight, two or three of them, successively, seized on the spare top-mast, evidently with the view of casrying it off; and as soon as they became familiar with the people around them, they showed that desire of possessing what they admired, which is so universal among savages. The only thing they looked on with contempt was a little terrier dog.—judging, no doubt, that it was too small for drawing a sledge; but they shrunk back, as if in terror, from a pig, whose pricked ears, and ferocious aspect, being of the She land breed, presented a somewhat formicable appearance. This animal happening to grunt, one of them was so terrified, that he became from that moment uneasy, and appeared impatient to get out of the ship. In carrying his purpose into effect, however, he did not lose his propensity to thieving, as he seized and endeavoured to carry off the smith's anvil; finding that he could not remove it, he laid hold of the large hammer, threw it on the ice, and, following it himself, deliberately, set it on his aledge, and made off.

The intercourse with the natives was interrupted for two days by a gale of wind, but renewed on the 13th of August, and continued to the 16th, when, the ice having opened, Captain Ross 'felt it his day, to quit this position, and to pursue without loss of time the main object of the expedition.' The tract here called the Arctic Highlands, occupies a space of 129 miles on the shore, and of about 20 in breadth, being cut off from the surrounding land, by impassable mountains. As the officers, at the time they originally landed, did not proceed far beyond the beach, nothing definite is given respecting the nature of the country or its produce, except the little that could be collected from the reports of the natives. The most important article of this, is the native iron, from which, by means of sharp stones, they procure fragments, which being flattened, are inserted in a handle of sea unicorns' horns, thus forming very tolerable knives. It is ascertained to contain nickel, and therefore conjectured to be of meteoric origin. Game, consisting probably of some species of terms, and hares, were said to be abundant, as well as black foxes. a fur, of which the value is considerable—as, at the moment we write, it is selling at 20 guineas per skin, undressed, at the brokers' sales. It is imagined also that a commerce in sea ivory might be established; and the abundance of whales forms a legitimate temptation to extend the fishery flux far.

Their language is a dialect of the Requimanx; and a parallel vocabulary, of small extent, is given in the Journal; and there is a speculation on the origin and conexions of these tibles, from which we learn nothing. In persons, manners, and dress, they differ little from the Southern Esquimanx; but the number of the natives could not be dissovered. It is imagined by Captain Ross that they have no idea of a spirit, good or evil, and that their conjurors or angekoks, are merely a superior order of jugglers, serving their apprenticeship regularly to the business, and like the Lapland wizards, capable of hottling a storm in a night-cap. The habitations are partly sunk under ground, as is usual in these arctic regions, and the fire and light for all purpose is a wick of moss dipped in oil. That oil, unit the flesh of the sea unicorn, seem to constitute their chief articles of food, but their diet appeared to be purely animal, as it was believed they had no esculent vegetable substance, and rejected with disgust that which was presented to them on board the ship. In their dog sledges, their aversion to walking, and other general habits, they resemble all the tribe, and they appeared contented and well fed.

In one respect they showed a very decided thank of civilization, by which, no less than by the sight of a gibbet, a dranger might determine that he had arrived at civilized country:—They have a king, to whom they pay taxes. He is, however, 'strong, very good, and very much beloved:'—some compensation, assuredly, for a gabelle of train-oil, or a poll-tax on sea unicorns. Another essential mark of civilization is, however, wanting; they have no war: And there is yet a fact perhaps still more surprising;—they are utterly unacquainted with any mode of going on the water, and appeared never even to have heard of a canoe.

On leaving this colony, the Expedition reached what Captain Ross calls the 'last barrier of ice,' and 'for the first time saw the sea wash the rocks.' Baffin's sight of the land had terminated before he came near this place; nor did he again see the shore until he was near Cape Dudley Digges,

we think we can deduce, from various observations in the Journal, that this barrier is formed by a multitude of icebergs, aground on a bottom of about 40 fathoms in depth. By means of these, the motions of the field ice is checked, and a solid body is thus generated, which remains to so late a period in the year as to impede the attempts of vessels, which are generally ready to make the attempt before the thaw is sufficiently established. The drifting of the ice by the north-west winds, from the upper and wider parts of the bay, causes the loose ice to settle and consolidate in this manner, not only on this shoat, but on the general line of shallow water that runs parallel to the east side of the bay; and it is probable, that at the season at which this barrier, was passed, a passage into the Bay might have been effected in many other places to the southward, where, at an earlier period, it had been found impassable.

The velocity of the tide was about one mile in the hour, the ebb to the castward the yeater was deep, and no indination of any other current is men

tioned. It appeared that foxes of valleds colours, black, white, and red, were found on the shore at this place;—to which the name of Cape York is given.

To the north of this point, a considerable tract of ice or snow was found, stained of a dark crimson colour, to the depth of 10 or 12 feet. On examination, the colouring matter was found to consist of minute globular-particles; and a portion was brought home for examination. In the Appendix, the result of that examination, by Dr. Wollaston, is stated; and he is strongly inclined to think the red matter consists of minute globules, from 1-1000th to 1-2000ths of an inch in diameter. I believe their coat to be colourless, and that the reduces belongs wholly to the contents, which seems to be of an oily nature, and not soluble in water, but soluble in rectified spirits of wine. When the globules are highly magnified, and seen with sufficient light, they appear to be internally subdivided into about 8 or 10 cells. They bear to be dried with the heat of boiling water, without loss of colour; by destructive distillation they yield a fetid oil, accompanied with ammonia, which might lead to the supposition that they are of animal origin; but since the seeds of various plants also yield this product, and since the leaves of Fuei also yield ammonia by distillation, I do not discover any thing in the globules themselves which shows distinctly from what source they are derived. I find, however, along with them, a small portion of cellular substance, which has not only these globules adherent to its surface, but also contained in its interior; and this substance, which I must therefore sonsider of the same origin, with them, appears by its mode of burning to be decidedly vegetable, as I know of no animal substance which so instantly burns away to a white ash as soon as it is heated to redness.'

We have only to add to this statement, that, from portions of this matter which have arrived in Edinburgh, the smell at present is that of a mixture of fish oil and drying oil, with something peculiarly offensive superadded. No further light can of course at present be thrown on this curious subject.

No further light can of course at present be thrown on this curious subject. On the 17th of August. Cape Dudley Digges was made, and found to agree with the description given of it by Baffin. The inlets were everywhere filled with solid ice; and the interior country presented a range of high mountains covered with mow. Here an opportunity was also afforded of witnessing the origin of the iceberg; and a plate of the object is given. The country was invabited even here, as buts were to be distinguished. It was concluded to be Petowack, the capital of the Arctic Highlands. We are here weated, 'en passent,' with a remark on the substitution of food for sleep. We have often heard of a much cheaper substitute, that of sleep for food. We do not know whether the physicians of this Æsculapian city will consider Capitain Ross's theory as a good one, or whether they have a better to propose; but of this we are sure, that it was a strong mark of the good will and perseverance of his crew, and of the excellent discipline which he appears to have maintained among them. It at any rate seems to prove the superiority of the human animal to all others, and to show the effect of mental energy in stimulating muscular exertion; and, what is more extraordinary, in suspending the exhaustion which in other cases would follow its excess.

The passage of Wolstenholm Sound occupied the 18th of August, and Carey's Islands were seen, still further confirming the accuracy of Baffin; to whose memory, if we may judge from some incidental remarks of this nature throughout the Journal, and a passage of a much more decided nature in the introduction, Captain Ross pays a late, but a well merited, tribute of respect. An attempt was now made to find the north-weat passage in Whole Sound; 'but we were soon convinced that there was no navigable passage in that direction.' We presume that this judgment must have been formed from the Sound being full of solid ice, and from the height and form of the land beyond; but here Captain Ross has unfortunately left us in the dark. We do not ourselves believe there is a possibility of a passage through Whale Sound; but it was incumbent on Captain Ross to have stated his reasons for his conviction. We have not however heard, that but of the numerous projects for a north-west passage, invented since his return, this one has been proposed; and we therefore conclude, that the warmest advocates of the Polar Basin are equally 'convinced.'

After passing Carey's Islands, Smith's Sound was made, of which Bassin appears also to have had a view. Captain Ross conceived the bottom of it as being 18 leagues distant, and gave names to the two Capes, The soundings here gave the depth of 190 fathoms, while the floating of large icebergs also proved that the water was generally deep.

A general opinion has, we believe, been entertained, that the depth of the soundings near the land, afforded indications of the expected passage; and as this question often arises in the course of the Journal, it is proper to inquire on what it is founded. We have already seen, that the depth along shore, even within three miles of that land which is unquestionably continuous, reaches to 455 fathoms, while in the middle of the Bay, it is only one hadded. It is further proved by other observations scattered through the course of the narrative, that the bottom is in various parts of the Bay exceedingly irregular and mountainous; circumstatees which preclude all possibility of coming to a conclusion on this subject in favour of a passage in any particular inlet. On the coast of Norway, there are no soundings in 200 fathoms, and the river Kota in Lapland is equally deep; so that no argument appears capable of being founded on the depth of water. Moreover, in Bebring's Straits, where there is a passage, there are but 28 fathoms; and in the entrance of the White Sea, but nine. We may also, remark, that in Lantaster Sound, and in all theother deep bays to the north, the fragments brought up by the sounding line were sharp, having undergone no motion; whereas, about Disco, where the constant motion of theice, the tides, and the

winds, cause a perpetual current in alternate directions, the gravel at the bottom is all rounded. In the northern bays, the less breaks and floats away, and the water at the bettom remains at rest; a circumstance which could not bappen, if a passage or current existed through them.

The soundings throughout this voyage present a new feature in nautical practice, and form a valuable addition to the discoveries of our navigator. For these we are indebted to the great attention he has bestowed on this subject by which he has proved, that, with proponeare, it is as easy to reach the bottom at 1000 fathoms as it was formerly meaned to be at 100. By an ingenious instrument, also of his own invention, he has succeeded in bringing from the bottom the materials which the remman deep-sea lead often failed to do from a tenth part of that depth; by means of which, not only the materials, but even the temperature of the water is ascertained; the mon-conducting property of the water preventing, the communication of the temperature above to the mud contained in the forceps of his machine.

On the 20th of August, it was found impossible to get further north, in consequence of the ide; and a solid mass was found reaching across that bay, which forms the northermost part of Baffin's Bay. As this bay is yet unnamed, it is but common justice to cur navigator to give it the name of Rosa's. The rise of the tide was here four feet, and the flood set to the north; but the velocity was diminished to hilf a knot in the hour.—At this part of his Journal, Captain Rosa thinks it necessary to recapitulate the particulars on which his conviction, that no passage exists in this place, is founded; circumstances which appear equally to have afforded conviction to his officers, who 'were satisfied that they had seen the land all cound this hay at different times,' as did also the officers of the Alexander, who were at the mast-head of the ship at the same time. They are sufficient to satisfy us, that there is no passage through Ross's Bay; and we shall, instead of quoting them, refer our readers to that part of the Journal. We shall, however, insert the concluding passage, as it is equally applicable to other cases where this problematical passage may still be supposed to exist. Even if it be imagined, that some narrow strait may exist through these mountains, it is eyident, that it must for ever be un-navigable, and there is not even a chance of ascertaining its existence, since all approach to the bottom of these bays is prevented by the ice which fills them, to so great a depth, and appears never to have moved from its station.' p. 163.

On quitting the northernmost point which the expedition had thus reached, the vessels proceeded to explore Jones's Sound, the next inlet where the passage in question might be expected. This bay was also filled with ace of a peculiarly solid nature, and of a green colour; the land appearing bare of vegetation: Few birds were seen, no whales, or any animal, except seals, which were abundant. The depth of water was 110 fathoms. Here also it was ascertained, 'that a ridge of very high mountains extended mearly across the bottom of the bay, joining to another from the south not quite so high.' Being satisfied that there could be no passage here, the wessels stood to the southward. At this place a piece of fir was picked up, with the mark of the plane and adze on it, and containing nails. Captain Ross thinks it had drifted up the bay by the southerly winds: he seems to forget the shorter road it might have had, like the harpooned whales, from the White Sea, or the west coast of America, through the Polar Basin and Jones's Sound; or Lancaster Sound;—'tis all one. We must here remark, that this is the only piece of driftwood that was found in the bay. A good deal of stress has been laid on the subject of driftwood coming from the Polar Basin, between Spitzbergen and Greenland, or through the Northwest Passage down ' Baffin's Sea, after having made the voyage of Behring's Straits, and, for aught we know, that round Cape Horn also, from the Bay of Honduras. 'Inconsequentia rerum feedissima,' We have inquired of our nautical friends respecting these occurrences. Admiral Lowenorn's theory of the specific gravity of floating mahogany, which is too heaby to float, and of which the specific gravity is diminished by its being perforated, is no doubt very philosophical; but we must say, that we think the plain and vulgar supposition of the loss of a ship, or the washing overboard of a few planks, is a more natural solution of the phenomena.

On the 24th of August, the sun set to our navigators for the first time—terminating a day of '1872 hours,' as it is here stated; 'and giving them warding of the approach of a long and dreary winter.' The land surrounding Jones's Sound was repeatedly seen at the same time; the ice was much heavier and more compact. On the 28th of August, the fogs, which had been found wory prevalent for some days, began to be of serious inconvenience, as the nights also became dark; but at several times, the land was traced to the latitude of '25' 27', presenting ridges of very lofty mountains. The coast, however, being defended by ice, it could not be approached within five leagues. The sea to the eastward was at the same time entirely clear of ice. The mountains were estimated at 4000 feet, (it is not easy to conjecture upon, what grounds), and were but partially covered with snow; black rocks protruding at their summits; their sides, near the foot. were equally clear; and our navigators considered this part of the coast as habitable. The soundings were found to reach from 200 to 240 fathoms, pretty regularly for a considerable space.

On the 29th, the ships continued standing towards the most distant land, which was indistinctly seen at that past five in the afternoon from south to north-west. During this progress, the temperature of the surface water increased from 82 to 36. This is very properly attributed to the vessals having quitted the ice, in the vicinity of which the freezing temperature is naturally maintained. A wide opening appeared here, between a cape, called Cape Charlotte, and a more distant land, which, after some tacking, the Isabella was enabled to stand in for, to explore; and on the 30th of Appair, the northern side of the land in this opening was seen 'extending

from west to north in a chain of high mountains covered with snow.' A yellow sky, without land, was also seen 'between west and south-west,' with the water dear of ice; the opening taking the appearance of a channel, which was 'judged to be 45 miles;' (wide) we suppose. But here we are, as usual, left to our conjectures respecting the opinion Captain Ross, might have formed on the subject of this channel, and the feelings of hope or doubt with which he may have heen agitated in arriving at a point, which, to say the least, gave the strongest indication that had yet been found of a north-west passage.

In the afternoon of the same day, 'the wind having obliged them to stand to the south side, they had arrived at the most magnificent chain of mountains which they had ever beheld.' The rocks of the summits, in these also, protruded beyond the covering of show. 'The rest of the day was spent in beating to the westward; all sail was carried, and every advantage taken of the changes in the direction and strength of the wind. As the evenying closed, the wind died away,—the weather became mild and ward,—the water much smoother, and the atmosphere clear and screes. The mountains on each side of the Strait, being clear of clouds, had beautiful tints of various colours. For the first time we discovered, that the land extended from the south two-thirds across this apparent Strait; but the fog which continually occupied that quarter, obscured its real figure. During this day, much interest was excited by the appearance of this Strait; but the general opinion was, that it was obly an inlet; and, by anticipating a few pages of the narrative, we find that it was the Laneaster's Sound of Baffin, the latitude being here found to coincide with that given in his account.

About after midnight the wind began to shift, and the ship came gradually up, enabling us to stand directly up the bay: I, therefore, made all sail, and left the Alexander considerably astern. At a little before four o'clock A. M., the land was seen at the bottom of the inlet, by the officers of the watch; but before I got upout deck, a space of about seven degrees of the compass was obscured by the fog. The land which I then saw was a high ridge of mountains, extending directly across the bottom of the inlet. This chain appeared extremely high is the centre, and those towards the north had, at times, the appearance of islands, being insulated by the fog at their bases. Although a passage in this direction appeared hopeless, I was determined completely to explore it, as the wind was favourable; and therefore, continued all sail. At eight the wind fell a little, and the Alexander being far astern I sounded, and found six hundred and seventy-four fathoms, with a soft muddy bottom. There was, however, we current, and the temperature of the mud was 20]. Soon after this the breeze freshened, and we carried all sail, leaving the Alexander, and steering directly up the bay. The weather was now variable, being cloudy and clear at intervals. Mr. Beverley, who was the most sanguine, went, up to the crow's-nest; and, at twelve, reported to me, that before it came thick, he had seen the land across the bay, except for a very short space. Although all hopes were given up, even by the most sanguine, that a passage existed, and the weather continued thick, I determined to stand higher up, and put into any barbour I might discover, for the purpose of making magnetical observations. Here I felt the want of a consert, which I could employ to expore a casast, or discover a haribour; but the Alexander sailed so badly, and was so leewardly, that she could not safely be employed on such a service. During this day we shortened sail several times, to prevent our losing sight of her altogether. As we stood up the bay, two capes on the

About one, the Alexander being nearly out of sight to the eastward, we have to for half an hour, to let her come up a little; and, at half past one, she being within six or seven miles of us, we again made all sail. I intended to have sounded during this interval, but I found the south-east swell had so much increased, and the drift was so great, that it was impracticable.

'At half past two there were some hopes of its clearing, and I left orders to be called on the appearance of land or ice ahead. At three, the officer of the watch, who was relieved to his dinner by Mr. Lewis, reported, on his coming into the cabin, that there was some appearance of its clearing at the bottom of the bay; I immediately, therefore, went on deek, and soon after it completely cleared for about ten minutes, and I distinctly saw the land, round the bottom of the bay, forming a connected chain of mountains with those which extended along the north and south sides. This land appeared to be at the distance of eight leagues; and Mr. Lewis, the master, and James Hay, leading man, being sent for, they took its bearings, which were inserted in the log; the water on the surface was at temperature of 34. At this moment I saw also a continuity of ice, at the distance of seven miles, extending from one side of the bay to the other, between the nearest cape to the north, which I named after Sir Geo, Warrender, and that to the south, which was named after Viscount Castlereagh. The mountains, which occupied the centre, in a north and south direction, were named Croker's Mountains, after the Secretary to the Admiralty. The south-west corner, which formed a spacious bay, completely occupied by ice, was named Bartow's Bay, and is bounded on the south by Cape Castlereagh, and on the north by Cape Rosamond, which is a head land, that projects eastward from the high land in the centre. The north corner, which was the last I had made out was a deep inlet; and as it answered exactly to the latitude given by Baffin of Lancaster's Sound, I have no doubt that it was the same, and consider it a most remarkable instance of the accuracy of that able navigator. At a quarter past three, the weather again became thick and unsettled; and being now perfectly satisfied that there was no passage in this direction, nor any harbour into which I could enter, for the purpose of making magnetical observations, I tacked to join the Alexander

As we had heard that undoubted indications of a passage through Lancaster's Sound existed, and indeed that the expedition now fitting out was intended almost entirely for the purpose of exploring it, we were rather surprised at the positive manner in which the non-existence of the passage is here stated, and of the apparent force of the pridence brought forward. rith nol, are, ght

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is not for us to reconcile the doubts of those who disbelieve, with the testimeny of those who have seed; but we must say, that our 'just, indignation at confident nonsense,' to use the words of Tillotson, strongly tempts us to drop the subject altogether, and to accompany our navigator throughout the very little interesting matter that now remains in his Journal.

the very little interesting matter that now remains in his Journal.

Quitting Lancaster Scound, the Expedition proceeded to the southward, passing 'two more inlets, 'which were filled with large glaciers of ice, and quite impenetrable.' It is here remarked, and indeed in many other places, that wherever there was a head sea, the vessels made very little way, being very bad sailers, particularly the Alexander—from whose bad sailing, however, Captain Ross seems to have derived an advantage, namely, that of surveying the coast, while detained by her tardy progress; an attempt which the lateness of the season, and the nature of his instructions, would other wise have rendered improper. There is much cause to regret, that more attention is not paid in those departments of our service, where no ability can be supposed wanting, to circumstances on which the very fate, no less than the efficacy, of such expeditions must depend. In exploring a coast, nothing can be more obviously necessary than an active vessel, of a light draught, quick in sailing, and ready in working, so as to be fearless of the dangers of a lee-shore. Where so much also, as in this instance, was required to be done in so little time, quick sailing was a property most essentially necessary. It is not for us to imagine where the fault lies; but it is obvious, that no one can be so competent to select the vessel for such a purpose, as he whose business it is to command it, particularly if his previous knowledge of that particular navigation should have entitled him to speak with authority.

An uninterrupted chain continued to extend along this coast to the southward, connected with the ridge formerly observed in the bay. No bottom was found in 550 tathoms, the same general character as on the east side of the Bay appearing here also to prevail.

On this evening, as we are informed, there being a thick fog, the compasses all ceased to act. The effect of a hamid atmosphere, in increasing the deviation, or, in other words, in diminishing the more remote action of the magnetic centre on the needle, is frequently mentioned during the progress of the voyage. It is a remarkable fact in the history of magnetism; but, though hitherto little noticed, it has been recorded before. In James's voyage, we find the following passage. 'At night the fog was of so piercing a nature, as to spoil all our compasses, and make them flag so heavy withal, that they would not traverse; wherefore I would advise any that shall sail this way hereafter, to provide compasses of Messovy glass, or some other matter that will endure the moisture of the weather.' James's theory is more distinct, than his remedy is unavailing; as the needle is secured from the immediate contact of the 'piercing fog' in all compasses. It is impossible, in the present state of our information, to propose any thing on this subject, of which, indeed, in all its details, we have so little accurate knowledge; but it is well worth the attention of philosophers. The nature of the expedition, and the want of persons with leisure and ability to make these and many other experiments in the physical sciences, is but too evident in every page of the narrative.

On the 5th of September, another bay was found to the southward, here called Pond's Hay, which was occupied by a long glacier extending a considerable way into the sea. It was therefore impenetrable; but though, from a species of carelessness not unusual throughout the narrative, we are left to our own conjectures, whether the north-west passage may not exist here, on consulting the appended drawings of the land, it is apparent that the high mountainous ridges already described, occupied the whole of the shore. At noon, being abreast of Cape blacculloch, another bay was seen filled in the same manner with ice; and again a second, called Coutts's Inlet; the same mountainous ridges occupying the interior country. At sunset, we had run down above 70 miles of the coast; and I was completely satisfied there could be no passage between latitude 73 33 and 72: This coast nowhere appeared to be inhabited.

coast nowhere appeared to be inhabited.

4 On the following day, it being quite calm, and the water smooth, we sounded with deep-sea clams, and found one thousand and fifty fathoms, which were the deepest soundings we ever reached in Buffin's Bay. As we had only one hundred and twenty fathoms, fifteen miles further north, it is evident that the bottom of the sea, like the land, must here be very mountainous. The mud at the bottom of the sea, like the land, must here be very mountainous. The mud at the bottom was so extremely soft, that the instrument sunk completely into it, and considerable force was required to draw it out. The sea being a dead calm, the line became perfectly perpendicular; and we had a good opportunity of obtaining the exact depth before it started out of the ground. The instrument came mp completely full, containing about six pounds of mud, mixed with a few stones and some sand. Although this mud was of a substance to appearance much coarser than that which we had before obtained, it was also of a much looser nature, and had in true insects or organic remains; but a small star-fish was found attached to the line below the point marking eight hundred fathoms. The instrument took twenty-seven minutes to duscend the whole distance. When at five hundred fathoms, it descended at the rate of one fathom per second; and when near one thousand fathoms down, it took one second and a half per fathom. Although the check, the instrument made to the motion of the line when it struck the bottom was evident to all, I wished is put the fact beyond doubt; and, for this purpose, I set the instrument so micely, that the bast resistance at the bottom would make it act; and having attached the self-registering thermometer to it, I let it down, first to fire hundred, and a thousand, in succession. At each time it came up empty, and the thermometer each time showed a lower temperature; proving clearly, that the water was coler as it became deeper, and also indicating, that the instrument had and reached the bottom

In running further to the southward, the land continued to be traced to the latitude of 71: 22', where it had not been seen by former navigators; and the name of North Ayr is given to a tract never before described. It is remarked, that at this place the mountains near the shore assumed a new character, 'being more detached, of, a reunder shape, and the tops less covered with snow.' The formality of taking possession was next executed on a spot about a degree to the southward; and traces of inhabitants were then, for the first time, found on this coast. The remains of a habitation, with a fire-place, a human skull, and other marks of civilization being visible. This territorial acquisition to the empire will not probably be considered by the Colonial Department as a very interesting result of Captain Ross's voyage.

The hopes of discovering the north-west passage, seem in this part of the narrative to be hourly diminishing; as we read of nothing but bays filled with glaciers, and of high land backing the whole coast, which was always seen during the operations of standing in and out, according to the state of the wind and weather, in such a manner as to leave no doubt of the continuity of the coast being every where distinctly traced.

A very large iceberg was driven to the southward of Bruce's Bay, and its measurements are described, together with the attack of a bear; it was aground in sixty-one fathoms. A notion has been entertained, that such mountains of ice had the peculiar property of moving with vast rapidity against the wind, breaking through and quitting the fields of ice in which they were insulated. Hence it has very properly been concluded, that they were moved by some invisible force—which could of course be none other than the current rouning out, or into, the north-west passage, it is indifferent which. Now it would be very proper to ascertain, by what means Fabricius, who appears to be the authority for this belief, ascertained the existence of an under current capable of producing this effect; or how he determined, that the berg, and not the field ice, was in motion. We have taken the trouble to make some inquiries among, our most intelligent navigators who frequent Davis's Strait, and we find no authority in support of this fancy. The fact is, that the field ice, which is affort, quite the berg, which is aground; and as the most conspicuous body is always conceived to be that in motion, Fabricius, who knew less of the sea than he did of butterflies, imagined that the mountain was sailing against the wind, when the field was sailing before it. These mountains have been found aground in 300 fathoms; but that is not near the limit at which they are known to lie. It is a moderate computation for solid ice, to allow a fathom under water for a foot above; and as icebergs have been seen 600 feet above the surface, they must have been aground in as many fathoms, when Fabricius imagined them affoat.

On the 13th of September, the Expedition stood out 120 miles into the bay, which was then clear of ice; 'that which had filled it in the commencement of the voyage having disappeared.'—'It was thus ascertained, that ho land existed in the channel of Davis's Strait, about the latitude 70° 40°, and consequently, that there is no such land as James's Island, which is laid down in most of our charts.' The origin of this Island, which Captain Ross's voyage has thus expunged from the charts, appears to exist in an error founded on the inaccurate position given to the land on the opposite side of Davis's Strait. In these charts, Queen Anne's Cape is laid down in the longitude of 51° nearly, and Cape Walsingham in 68°. As the real longitude of the former is about 54°, and that of the latter 60° 45°, it is probable, that vessels taking their departure from the east side of the Strait, and making the opposite land, at the distance of 170 miles, instead of 400 which it was supposed to be, had mistaken Cape Walsingham, or some other part of the land, for an island.

On the 15th, the expedition continued running along the land, which still presented mountains not less high, or less covered with snow, than before; and two banks were discovered, having not more than 18 fathoms water on them. These shoals, it is probable, extend across the whole bay to Waygat Island, where a similar reef exists. That is deducible from the solid barrier of ice which was found in this direction, in proceeding northwards, and from the icebergs being still aground upon it on each side, at their return; all the field ice being melted away. This berrier of grounded icebergs, like that at Cape York before mentioned, appears to be in part the cause of the detention of the ice in the upper part of the bay to a late season; the field ice being incapable of drifting southwards in consequence of this blockade. The vessels were busy till the 18th, in tracing the land which Davis had seen before, and in naming the capes and bays which he had omitted; but the most important part of the observations consisted in determining the longitudes with a greater degree of accuracy.

From the 18th to the 21st, the ships continued to beat to the southward, and on that day stood so far across the bay, as again to make the land on the eastern side of it, near Queen Anne's Cape. The depth was forty fathoms, confirming the observations formerly made respecting the shallowness of the water in Baffin's Bay. Mount Raleigh was found to agree precisely with Davis's latitude; but, as usual, differing materially in longitude. It appeared of a pyramidal form to our navigators, and is considered exceedingly high; and, from the comparison of the longitudes which is here made, the breadth of Davis's Strait in this place is estimated at 100 miles.

The weather bad now become so far unsettled, that gales of wind were frequent; materially impeding the progress of the ships, and particularly that of the Alexander, which appears to have combined all the properties of a bad sailer. The usual remarks on the continuity of the land to the southward, interspersed with the ordinary nautical occurrences, are found through several successive days down to the 30th, when the Expedition was in lati

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tude 65 10', and discovered a bank of small extent. On the 1st of October the ships reached Cumberland Strait, of which they became immediately sensible, by the increased strength of the tides, and by their setting all round the compass in every direction;—the strength of the current was found to be two miles in the hour. Here the voyage of discovery may be said to terminate, as the following extract shows that this was its authorized conclusion.

conclusion.

As the first of October was the latest period, which, by my instructions, I was allowed to continue on this service, I was not authorized to proceed up this Strait to explore it, which, perhaps, at the advanced season of the year, might be too hazardous an attempt; the nights being now long, and the little day-light we had, being generally obscured by fogs or snow, and the rigging of the ship covered with ice. I thought it, however advisable to finish our operations for this season, by making Resolution Island, the exact situation of which had been laid down by Mr. Wales; I, therefore, determined on steering for the southermost land in sight; we, therefore, crossed the entrance of Cumberland Strait, and, making an allowance for indraft, steered about S.S.E. It will appear that, in tracing the land from Cape Walsingham, no doubt could be entertained of its continuity until the place where we found Camberland Strait, which is much further south than it was laid down from the latest authorities the Admiralty were in possession of; but it is very near the place where Davis placed it in his chart, which has been found since our return. From the circumstance of a current being found at the entrance of this Strait, there is no doubt a much better chance of passage there than in any other place; and it was a subject of much regret to us, that we had not been able to reach its entrance soouer.'

On the 3rd of October, the attempt to verify its longitude by means of

On the 3rd of October, the attempt to verify its longitude by means of Resolution Island was considered as too. hazardous under the existing circumstances; viz. thick weather, bad sailing ships, a dark moon, spring tides a coast surrounded with rocks, and the time I was directed to leave the service on which I was employed being arrived. Our bearings of yesterday were, however, sufficient to convince us, that our observations and chronometers could not be materially wrong. During the last night, which was both dark and foggy, the Alexander had separated from us considerably; and the wind being light, she did not join us until noon. We then bore up for Cape Farewell, having intimated, by signal, that it was my intention to make that Cape on our passage home. We sounded in three hundred and seventy fathoms, Cape Best on Resolution Island bearing west, distant aixteen leagues, by our reckoning. In the evening a light breeze sprung up from the westward, and we pursued our course.

It is unnecessary, however, to pursue that course any longer. After experiencing a gale of wind to the southward of Cape Farewell, the ships reached Shetland on the 30th of October.

As we have, in the preceding detail, made repeated reference to Capt. Rose's instructions, and, as it appears to us, the complete manner in which he executed them, it is necessary to make a few observations on their tenor, that by comparing them with the results of his voyage, the reader may judge whether he has not fulfilled all the expectations which they held out. The source from which they proceed deserves our respect, but not our implicit acquiescence in the speculations on which they appear to have been founded.

It is first stated, 'that there is reason to suppose, that ice is most abundant near the shores of the continent and islands, and in narrow straits and deep bays; and it may also be expected, that the sea will be most clear of see where the currents are strongest, as the stream of a river will continue open long after the sides are frozen up.' This expectation is not well-founded. The ice is not most abundant in such situations—as this voyage has proved; and it ought moreover to have been obvious, that the depth of water, and not the proximity of land, was one of the main causes, regulating the position and quantity of the ice. Moreover, near the shores, the greater strength of the tide currents, and the sudden inequality of level produced by their rise and fall, cause the ice to separate in these places, where, in the wider seas, it continues unbroken.

The next remark is to this effect. 'From the best information we have been able to obtain, it would appear that a current of some force runs from the northward towards the upper part of Davis's Strait during the summer season, and, perhaps for some part of winter also; bringing with it fields of ice in the spring, and icebergs in the summer.' Now it does not appear, that either Baffin, or Davis, or James, found any such currents; nor have any of the whalers whom we have consulted brought forward any proofs of a current of some force' in any place, which was not produced, in the manner formerly stated, by the winds and tides. The icebergs, whenever they are capable of motion, are drifted either up or down the bay by the winds, and as the northerly winds predominate in the summer, it is a natural consequence that to careless observers, they should have suggested the idea of a current down the bay. The real cause of this movement might easily have been discovered, if those who quote Baffin had read him with attention.

'In lat, 72 12', the sea is open, of an unsearchable depth, and of a good colour' enely the tydes keep no certain course, nor rise but a small height, as 8 or 9 foote, and the floode commeth from the southward; and, in all the bay beyond that place, she tyde is so small, and not much to be regarded, yet by reason of snew melting on the land, the ebbe is stronger than the floode; by means whereof, and the winds holding northerly the fore part of the years, the great isles of ice are set to the southward, some into Eretum Hudson, and others towards Newfoundland; for in all the channel where the rea is open, are great quantities of them driving up and downe; and, till this yeare, not well known where they were bred.'

Presuming, however, that such a current exists, the instructions go on to say, that it must 'be derived from an open sea; in which case Baffin's

Bay cannot be bounded by land, as our charts generally represent it, but must communicate with the Arctic ocean. That Baffin's Bay does exists, and that it is 'bounded by land,' has been fully proved by this voyage; but even if that had not been so thoroughly established, we are at a loss to know on what principle a current should be expected to flow from a supposed Asctic ocean to the southward. No carrent flows down Behring's Straits, which in this case, ought to be equally expected. As to the possibility of a current under vast fields of ice, carrying with it driftwood, which must thus be supposed capable of sinking, travelling unimpeded under ise of the most treegular forms, it does not admit of a serious examination.

'In passing up the Strait,' the instructions add, 'if such a current should be discovered, it will be of the greatest importance to you, in pointing out that part of the Straits which is likely to be least encumbered with ice, as well as in leading you direct to the opening by which it may be supposed to pass from the Arctic sea into Davis's Strait.' Captain Ross appears, in this case, to have obeyed his instructions with the greatest anxiety; but it is evident, from the aketch of his Journal which we have now given, that no indication of such a current was ever found.

In a subsequent paragraph, he is directed to abandon its pursuit, if it appears to exist in the north-east quarter. Now, if Baffin's Bay has no existence, there seems to be no reason why the attempt to sail into the Arctic ocean should not have been made, wherever it appeared possible. It seems to us, indeed, that a passage might, with most reason, have been expected between three islands and Cape York, as Baffin had not seen this part of the coast.

An order follows to examine the strength and direction of the current once in 24 hours, or oftener, if any material change is observed; to take its temperature at the surface frequently as you proceed, and to compare it with the temperature of the surface, where there is no current. The expectations founded on difference of temperature, appear not to have been well considered, nor can we conceive on what grounds a current from an arctic sea should be supposed to possess a higher temperature than the water to the southward. The truth seems to be, with respect to temperature at the surface in those seas, that it is so much influenced by the presence or absence of ice, that this must be considered as a disturbing force, capable of destroying any effects which could follow from a warm current, did any such exist. In fact, in examining the Meteorological Journal, it will be found that the 'temperature of the surface' was extremely steady, and varied only according to its proximity to the frozen shores, or to the presence or absence of ice.

In a subsequent part of these instructions, a passage occurs, in which it is said, that Baffin's supposed to have seen the land.' Baffin's own remark is this,—'As namely there is no passage, or hope of a passage in the north of Davis's Strait, we having coasted all, or near all, the circumference thereof, and find it to be no other than a great Bay,'—'For my own part, I would hardly have believed the contrarie, until mine eyes became witnesse of that I desired not to have found, still taking occasion of hope on every little likelyhood, till such time as we had almost coasted the circumference of this great Bay.'—

It appears from a multitude of testimonies, that the western land had not before been seen beyond the 60 of latitude, and it is here suggested that the north-east point of America might be expected about 72. We have always doubted the observation of Hearne and Mackenzie, respecting the sea which they supposed they had seen; and in consequence of Captain Ross's investigation, the whole question respecting the northern coast of America, has become more than ever obscure. The fear which Mackenzie felt at being detained by the ica, prevented him from ascertaining the fact that he had reached the sea; and, from other causes, Hearne has left the matter in still greater uncertainty. The arguments of both these travellers, rest solely on the presence of whales, and the rise and fall of the tide. Now with respect to the former, it is well known, that the white whale enters the rivers in Hudson's Bay in such abundance, as to have led to the establishment of a sishery in them. In Ellis's voyage we also find, that those whales were seen at a distance of 150 miles above the entrance of Wager's Strait, where the water was fresh on the surface;— notwithstanding we were now 160 miles from the entrance, on the 2d of August we passed the fall, above which the tide rose only four feet; but the shores were very steep, and no ground was to be feit with 140 fathoms; there still appeared seals and whites whales, but notwithstanding this, most of our company were not a little discouraged by their finding the water almost fresh on the surface. As these whales thus appear to frequent the fresh water, the circumstance of their being seen by Hearne and Mackenzie, proves nothing respecting the presence of the sea; while the size and fall of tide in the Hudson, and in many other rivers, extends to an enormous distance from the secan. We do not mean to dispute, that both these travellers had arrived at the tide part of the respective atreams which they examined. But the position of the northern above of America remains a problem to be ascert

In concluding this sketch of Captain Ross's voyage, it is fully apparent that he has established and extended the discoveries of Baffin, so as once more to convert his gratuitous bay into a real bay, notwithstanding the demonstrations of its non-existence which preceded his voyage, and, as we understand, have even attended it since his return. The term 'gratuitous' must now be transferred to Baffin's 'aca,' He has also most clearly established, that, so far from there being a perpetual current setting down along the castern coast of America, and the western shores of old Greenland, at

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the rate of four or five miles an bour, no current whatever exists in any part of the Bay, from Disco to Cumberland Straits, which is not transient and superficial, generated by the diurnal motion of the tides, and the drifting of the ice by the winds.

That he has disproved the existence of a North-west Passage, or of any passage, throughout the whole space which he circumnavigated, appears to us to be also most clearly demonstrated. The anxiety for this object, as we deduce from some hints in bis book, has persecuted him, since his return, in a manner that does not appear very creditable to those who have set themselves up as its champions. Indeed we have, even here, heard more than enough of the hear which has been excited on this occasion. We blave it to those who have so acted, to determine, and to show by their conduct, whether the unwillingness to abandon their bypothesis, has not been a stronger motive for this pertisacity than the advancement of science. The real philosopher is distinguished by his anxiety for truth; and we have never been able to understand on what other grounds the discovery of a North-west Passage, to the north of Cumberland Strait at least, has been esteemed a desireable, object. The condition of Baffin's Bay, to a late period in the summer, is such, and the uncertainty of effecting a passage through that Strait, if it existed, so great, as plainly to make it impossible that any advantageous commerce should ever be carried on by such a route with the Pacific Ocean...

with the Pacific Ocean...

What the event of the new Expedition to this quarter, now affoat, may, be, we do not venture to predict, as far as relates to Comberland Strait; but we have no besitation in expressing our belief, that, to the north of this, it will confirm the discoveries of the last season. The Hecla bumb, and a gua-brig, have, as we understand, been fated out for this expedition; the latter having been raised on. This measure we humbly conceive to have been palpably injudicious; and in thus making room for both crews, in case of accident, the other essential properties so requisite have been sa-crificed. She now draws mere water than, the Hecla; and from being so deep in the water, she will necessarily sail (like the Alexander) so heavily, as to becunst for exploring bays or inlets on a lee-shora. She thus also has become more unsafe even than the Isabella, her wall-side being under water; in consequence of which, it is to be feared, that she will be crushed; for she should happen to be inpubly the ice. We understand that, in addition to these defects, she is top-heavy, and unable to stow provisions for her crew. The Heela appears to have been fitted with more judgement. All vessels employed among fields of ice ought to be sharp, without which, they cannot rise between two fields; and the part which receives the pressure must consequently give way... If the ship is 'wall-sided,' or perpendicular, the ice can have no effect in raising her; as is seen in merchant-built ships, which are constructed to carry cargoes. The form of the American schooner has been found best adapted to the ice; and there are many instances where these vessels have been fairly lifted on the -top of a field without receiving any damage, while others of a different construction have been crushed. It is also necessary, that a vessel intended to work among ice should be a fast sailer, as it is only on a shift of wind that any progress can be made. When it has blown fresh for a day in any one direction, the ice becomes packed, an

As in all cases the greatest pressure of field ice is experienced in a space from three to six inches above the water's edge, pieces ought to be fitted on, to carry the diagonal line above this part of the ship's side, that at the first trip she may immediately rise; a precaution which has been neglected both in the Hecla and Griper. We have only to suggest, in addition to these remarks, that a light schooner should be added to the present expedition, for the purpose of exploring in shore.

A variety of matter is contained in a bulky appendix, which our narrow fimits will not allow us to examine; nor are the several abbjects all of equal importance; certainly not sufficient to justify the space which they occupy.

We have often had occasion to regret, that, in the appointment of expeditions of this nature, so little attention has been paid to the selection of persons competent to conduct those scientific inquiries which must be expected to arise on such occasions. Whatever knowledge of navigation a naval officer may possess, it would be unreasonable to expect from him a capacity to decide delicate questions of science, altogether out of the sphere of his profession. Even were his education such as to give him that extensive information, which he must possess unusual opportunities or uncommon talents to have acquired, it is plain, that his decisions would not be received as of authority. In all such cases, the confidence to be reposed in an observer must obviously depend on his previous reputation and acknowledged accuracy. It is vain to expect, that it will be placed in those whose very profession must disable them from acquiring that which in such cases is in-

dispensable. It must be recollected, that in all expeditions of this nature a most perilous responsibility rests on the commander. It is he who must watch for all, and think for all. The ordinary calls on his attention are no frequent and so important, that even the scientific acquirements of a Maskelyne would, in such a case, prove useless. It is enough for the commander, to attend to the navigation of his vessel, and to preserve the discipline and the health of his crew; and, as in this case, it is further necessary to be perpetually on the watch amidst the new and perilous situations in which he is every minute liable to be placed; it is much if he can carry on correctly the ordinary hydrogs phical observations which are more peculiarly his duty. If this be true even of astronomical and meteorological remarks, it is more particularly unreasonable to expect, that he can attend to the department of Natural History; to the collecting or preserving of objects, of which, but by an extreme chance, he can know nothing; and to the numerous philosophical questions of an incidental nature, which may come in his way at every step of his progress.

In reading the instructions, we observe; that a Captain Sabine of the artillery was recommended to the Admiralty 'as a gentleman well skilled in Astronomy, Natural History, and several branches of knowledge.'

Now, this recommendation does not seem to have been very correctly given; and we think we can discover, that Captain Ross does not set a high value on the acquirements of Captain Sabine. He has evidently expressed himself with much castion; for reasons which we do not know,—but which are probably very good, as our countrymen are noted for their prudence. But we can easily deduce from one of his remarks, that Captain Sabine did not wind up his abronometers, and, consequently, that one of them very naturally ran down. As far as we can discover from the Journal, this is the only experiment in Astronomy for which Captain Sabine is responsible. But a much stronger decision is ready on the subject of Natural History. There is a Botanical catalogue, no doubt; but it is professedly drawn up by a botanist at home, whose celebrity could acquire no addition from any praise of ours. There is, further, a very awkward correspondence on Zoology; and an article appended, which has been drawn up as well as could be expected, by the surgeous of the ship, and corrected by Dr. Leach. From this curious correspondence, it appears, that the Naturalist of the Expedition confesses himself ignorant of every thing in this branch of knowledgo except what relates to Ornithology; and it is further pretty plainly insinuated, that in this department he means to be indebted to bis brother, who is considered an ornithologist. Future naturalists will therefore be at a loss to know, whether Larus Sabini marks the path of Joseph or of Edward Sabine through the regions of air; or which of these philosophers is to rise to formithological immortality on the plumes of a sea gull. In Geology, or Geognosy, the Geognost of the Expedition seems to have been equally deficient; and we have accordingly another exposé in the cautious nature of an apology also. This is followed by a catalogue of specimens, drawn up by a well known member of the Geological Society.

An account of various Instruments, ment liberally furnished to the Expedition, is found in the Appendix; and of these a few require notice. Among the various Compasses for different objects which formed part of the scientific furniture of the Expedition, due praise is given to Kater's Azimuth Compass, and to a Steering Compass, constructed by Alexander, of Leith. In consequence of the better adaptation of the weight of the needle to that of the card, and the superior method of suspension, it was found to traverse in foggy weather, near Lancaster Sound, when all the rest had ceased to act. Of the several Dipping-Needles, it appeared that Nairne's alone was worthy of being relied on: From various defects, no results could be obtained from the others. There is an amusing attempt to trim between the importance and the inutility of Dr. Wollaston's Dip Sector. We'do not pretend to judge of an instrument which we have not seen; but the objections seem insurmountable,—arising from the inequality of the refraction on various parts of the horizon, and from its extreme inconstancy in situations where ice is present.

The most obvious results (although, we may presume, unexpected by the inventor himself) were obtained from Troughton's whirling horizon. The minute vibrations noticed in the Appendix, where these remarks are contained, must have arisen from imperfections in the workmanship, which are perhaps insurmountable; but the inventor seems to have forgotten, that the ordinary movements of the ship must have communicated to it, motions incapable of being counteracted by the quantity of its centrifugat force; and accordingly it deviated from the horizonal position, even in moderate motions, above half a degree.

An instrument called a Sympeisometer, is praised as likely to supersede the use of the Marine Barometer. This appears to be a variation of the Manemeter, and is obviously subject to the same defects. If it is more quick in indicating the approach of a squall, it also indicates changes which do not depend on the increase of the wind, while it is affected by differences of temperature, which the correcting thermometer does not check so rapidly. Hence the sails may be often taken in when no difference but that of temperature has occurred. We do not, for our parts, think that a manometer of any construction, will ever supersede the marine barometer, imperfect as that may be; And, that the sympeisometer does not accord with the barometer, is evident on inspecting the meteorological table, where the lines are very often far assunder. There is no great reason to doubt, that these barometers acted well, as will appear in the Journal, and by the fact, that calms were for a long time prevalent. Other instruments are described in this Appendix; but some of these seem not to have been used for want of opportunity, and others for want of opportunity,

Dew Doem.

RHODODAPHNB, OR THE THESSALIAN SPELL.

This is a very elegant little Work. It is a Greeian fairy-tale, which required a considerable knewledge of crotic antiquity in the author, and no ordinary command of the lighter graces of versification.

All the charm of the story would be destroyed by any thing like, an abstract of its brief but ingenious contents; and for the same renson, viz. the fear of diminishing the pleasure of the reader and the just attractiveness of the poet, we shall abstain from any quotation which would reveal the main incidents of Rhodedaphne. The hook, indeed, short as it is, abounds in passages which, from the general nature of their subjects, may be more fairly and properly extracted than any of the component parts of the tale itself. Our readers will easily form their judgment of the merits of this writer, who reminds us of the amonymous author of the "Bridal of Triormain," from the subjoined specimens.

The scene is Greece.

Eve came, and twilight's bal y hour;
Alone, beneath the cedar bower,
The lovers sate, in converse dear
Retracing many a backward year,
Their infant sports in field and grove,
Their mutual tasks, their dawning love,
Their mingled tears of past distress,
Now all absorbed in happiness;
And off would Fancy intervene,
To throw, on many a pictured scene
Of life's untrodden path, such gleams
Of golden light, such blissful dreams,
As in young Love's enraptured eye
Hope almost made reality.

So in that dear accustomed shade,
With Ladon flowing at their feet,
Together sate the youth and maid,
In that uncertain shadowy light,
When day and darkness mingling meet,
Her bright eyes ne'er had seemed so bright
Her sweet voice ne'er had seemed so sweet,
As then they seemed. Upon his neck
Her head was resting, and her eyes
Wore raised to his, for no disguise
Her feelings knew; untaught to check,
As in these days more worldly wise,
The heart's best, purest sympathics.

After this Arcadian sketch of love and romance, let us next behold a more varied picture.

The magic maid of Thessaly,
Tis Rhododaphne! By the spell,
That ever round him dwelt, opprest,
He bowed his head upon his breast,
And o'er his eyes his hand he drew,
That fatal beauty's sight to shun.
Now from the orient heaven, the sun
Had elothed the castward waves with fire:
Right from the west the fair breeze blew:
The full sails swelled, and sparking through
The sounding sea the vessel flew:
With wine and copious cheer the crew
Carcused: the damsel o'er the lyre
Her rapid fingers lightly flung,
And thus, with feigned obedience, sang:—

'The Nereid's home is calm and bright,
The ocean depths below,
Where liquid streams of emerald light
Through caves of coral flow,
She has a lyre of silver strings
Framed on a pearly shell,
And sweetly to that lyre she sings
The ship-wrecked acaman's kpell.

'The ocean-anake in alcep she binds;
The delphins round her play:
His purple conch the Triton winds
Responsive to the lay.
Proteus and Phorcys, sea-gods old,
Watch by her coral cell,
To hear, on watery echoes rolled,
The ship-wrecked seaman's knell.'—

She ruse, and lossed her radiant hair, And raised her golden lyre in air.
The lyre, beneath the breeze's wings, As if a apirit swept the strings.
Breathed airy music, sweet and strange, In many a wild phantastic change.
Most like a daughter of the Sun She stood: her eyes all radiant shene With beams unutterably bright;
And her long tresses, losse and light, As on the playful breeze they rolled, Flamed with rays of burning gold.

We are; however, scarcely fulfilling our promise of spleeting common places from this small but well-stocked poetical store-house.

Hast thou, in some safe esetreat, Waked and watched, to hear the roar Of breakers on the wind-awept shore? Go forth at morn. The waves, that beat Still rough and white when blasts are o'er, May wash tall ghastly, to thy feet Some victim of the midnight storm. From that drenched garb and pallid form Shrink not: but fix thy gaze, and see Thy own congenial destiny.

For him, perhaps, an anxious wife
On some far coast o'erlooks the wave; A child, unknewing of the strife Of elements, to whom he gave His last fond kiss, is at her breast; The skies are clear, the seas at rest Before her, and the hour is nigh Of his return : but black the sky To him, and fierce the hostile main Have been; the will not come again: But yesterday, and life, and health, And hope, and love, and power, and Were his: to day, in one brief hour, Of all his wealth, of all his power, He saved not, on his shattered dock, A plank, to waft him from the week. Now turn away, and dry thy tears, And build long schemes for distant years! Wreck is not only on the sea; The warrior dies in victory: The ruin of his natal roof O'crwhelms the sleeping man; the hoof Of his prized steed has struck with fate The horseman in his own home gate: The feast and mantling bowl destroy The sensual in the hour of joy.

The bride from her paternal porch
Comes forth among her maids: the torch,
That led at morn the nuptial choir, Kindles at night her duneral pyre. Now turn away, indulge thy dreams, And build for distant years thy schemes!

The thoughts in the ensuing passage are perhaps sufficiently usual, when such matters are recalled, for the thousandth time, by any amatory poet: but we can fix no limit to their powered of pleasing:

We grew together, like twin flowers.
Whose opening buds the same dews cherish;
And one is reft, ere noon tide hours,
Violently; one remains, to perish
By slow decay; as I remain
Even now, to move and breathe in vain,
The late, false love, that wordlings learn,
When hearts are hard, and thoughts are stern,
And feelings dull, and custom's rule
Omnipotent, that Love may cool,

And waste, and change: but this—which flings
Round the young soul its tendril rings,
Strengthening their growth and grasp with years
Till habits, pleasures, hopes, smiles, tears,
All modes of thinking, feeling, seeing,
Of two congenial spirits, blend
In one inseparable being,—
Deem'st thou this love can change or end;
There is no eddy on the stream,
No bough that light winds bend and toss,
No obsequering of the sunny beam
Upon the woodland moss,
No star in evening's sky, no flower
Whose beauty odorous breezes stir,
No aweet bird singing in the bower,
Nay, not the rustling of a leaf,
That does not nurse and feed my grief
By wakening thoughts of her."

It would be unpardonable, in noticing an author who is to be classed among the most decided votaries of the classical Cupid,

"Et quantum est hominum venustiorum,"
that this inflammatory were has produced, to omit
his ardent address to his presiding deity:

*First, fairest, best, of powers superual, Love waved in heaven his wings of gold, And from the depths of Night eternal, Black Erebus, and Chaos old, Bade tight, and life, and beauty rise Harmonious from the dark disguise Of elemental discord wild, Which he had charmed and reconciled. Love first in social bonds combined The scattered tribes of human kind, And bade the wild race cease to roam And learn the endearing name of home. From Love, the sister arts began, That charm, adorn, and soften man. To Love the feast, the dance belong, The temple-rite, the choral song; All feelings that refine and bless, All kindness, sweetness, gentleness. Him men adore, and gods admire, Of delicacy, grace, desire, Persuasion, bliss, the bounteous aire; In hopes, and toils, and pains, and fears, Sole dryer of our human tears; Chief ornament of heaven, and king Of earth, to whom the world doth aing One chorus of accordant pleasure,
Of which he taught and leads the measure, He kindles in the immost mind One lonely flame—for once—for one— A vestal fire, which, there enshrined Lives on, till life itself be done. All other fires are of the earth, And transient: but of heavenly birth Is Love's first flame, which howsoever Fraud, power, woe, chance, or late, may sever From its congenial source, must burn, Unquenched, but in the funeral urn.

Stangas for Music.

When lovely sounds about my ears
Like winds in Eden's tree-tops rise,
And make me, though my spirit hears,
For very luxury close my eyes,
Let none but friends be round about
Who love the soothing joy like me,
That so the charm be felt throughout,
And all be harmony.

And when we reach the close divine,
Then let the hand of her I love
Come with it's gentle palm on mine
As soft as snow or lighting dove;
And let, by stealth, that more than friend
Look sweetness in my opening eyes,
For only so much dreams should end,
Or wake in Paradise,

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[&]quot;This Arork, our readers well know, was published anosympusly; but, very recently, we have seen it, and "Harotd the Dauntless," advertised as the now acknowledges compositions of Walter Scott.